

# Tyron Rieckmann

Phoenix, Arizona / [tyrumus@gmail.com](mailto:tyrumus@gmail.com) / <https://tyrumus.dev>

## Experience

### Software Engineer / Moog Inc.

2023-PRESENT

Ported VxWorks drivers to Linux kernel modules. Designed and implemented new Linux kernel modules, DevOps-based workflows for Satellite-as-a-Service solutions, reproducible build environments, machine learning inference demo for conferences, and more R&D ventures.

### Manufacturing Technician / Intel Corp.

2018-2023

Collect, analyze, and evaluate monitor and defect data on TEL Clean Track Lithius i+ and Lithius Pro V -i platforms in the resist-coating portion of the lithography process. Ensure all resist track equipment maintains maximum processing availability and minimal die impact for optimal high volume manufacturing. Provide extensive training for new full-time employees and interns. Maintain and improve extraneous automation systems necessary for efficient day-to-day sustaining operations.

### AWS Infrastructure Engineering Consultant / GO AV

2020-2021

Advised company owner on best options for deployment of various server software on Amazon Web Services (AWS). Deployed numerous video conferencing relays (Jitsi) and Windows Server instances, and networked them together for corporate customer livestreams (VMix). Created unattended installation Bash scripts for the company to use for additional future deployments of Ubuntu Server.

## Education

### B.S. Computer Science / Arizona State University

GRADUATED DECEMBER 2022

- Unweighted Cumulative GPA: 3.71
- ASU Linux Users Group alumni
- EDM DJs & Producers Society secretary

### A.A. Computer Science / Mesa Community College

GRADUATED MAY 2018

- Unweighted Cumulative GPA: 3.81
- President's Honor List 2016-2018

### AAEC Red Mountain High School

GRADUATED MAY 2018

- National Honor Society
- Robotics Club President (Sophomore Year)
- Student Ambassador

## Technical Skills

### Web Frontend/Backend

HTML, CSS, JavaScript, TailwindCSS, Svelte, SvelteKit, Koa, PHP, SQL, WSDL, WebGL

### Systems languages

C, C++, Rust, Java, Swift, C#, OpenGL ES, Python

### Scripting languages

Lua, Batch, Bash

### Misc software/operating systems

Git, Docker, Kubernetes, AWS, Ubuntu/Debian, AlmaLinux (RHEL), Arch Linux, Raspbian, OpenWRT, Samba, Apache, GIMP, Blender, Microsoft Office Certified, Windows Server

## Open Source Contributions

- [awesome window manager](#)
- [volt package manager](#)
- [CTFd](#)

## References

Tonya Manning <[tonya.manning@intel.com](mailto:tonya.manning@intel.com)>  
Rick Barkley <[rick.barkley@intel.com](mailto:rick.barkley@intel.com)>  
Rudy Tessmer <[goavrudy@gmail.com](mailto:goavrudy@gmail.com)>  
William Vins <[bvins@mrvins.com](mailto:bvins@mrvins.com)>

# Projects

(in order of importance)

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## Homelab Server / Personal

2023-PRESENT

*Software: Proxmox VE, TrueNAS Scale, restic, endlessh, Docker, Traefik, Authentik, Gitea, Jellyfin, Syncthing, Wiki.js, Minecraft*

All web services are configured for SSO through Authentik.

## License Plate Ecommerce Website / ASU Capstone Group Project

2021-2022

*Stack: Node.js, Koa, PostgreSQL, Caddy Server, TailwindCSS*

Researched full stack, designed and built REST API & database layout, configured all server and security software on a bare Ubuntu Server instance. My groupmates worked on the frontend.

## Meatup / ASU Project

2022

*Stack: iOS/Xcode/Swift, Node.js, Koa, PostgreSQL, Caddy Server*

Designed and built: REST API, database layout, iOS app UI and logic.

iOS app for facilitating neighborhood parties/events. Hosts can post events. Other users can browse all events within a 10 mile radius of their current location, and mark them as Interested.

## Graphical 3D Printer Software / High School Project

2017-2018

*Stack: Electron, Three.js, Printcore/Pronsole*

Focused on building a UI that guided new users on how to use the school's 3D printer. Instructions, familiar UI elements, and fail safes were put in place to empower someone who's never used a 3D printer before, without supervision.

## Home Network / Personal

2020-PRESENT

OpenVPN server: Provides secure remote access to my LAN.

Pi-Hole: Blocks advertisements, but is also used as my home DNS server for easy access to various devices on the LAN.

OpenWRT router: In addition to routing, provides dynamic DNS and VLANs to segment trusted devices from internet-exposed devices.

## Dotfiles / Personal

2021-PRESENT

A series of config files and Bash scripts that leverage chezmoi to install and configure an entire Arch Linux workstation (installing and configuring programs, system services, desktop environment, etc) with a few disk partitions and an internet connection.

## Raspberry Pi ComputerCraft Emulator Box / Personal

2016

*Stack: Raspbian, LOVE 2D/Lua*

Intended to be a fun artistic project to bring my favorite Minecraft mod to real life.

## Arduino SMS Door Lock / High School Science Fair

2015

Unlocks/locks when text message is received with correct password.

## Arduino Handheld Touchscreen Phone / Personal

2015

Capable of placing calls and sending SMS.